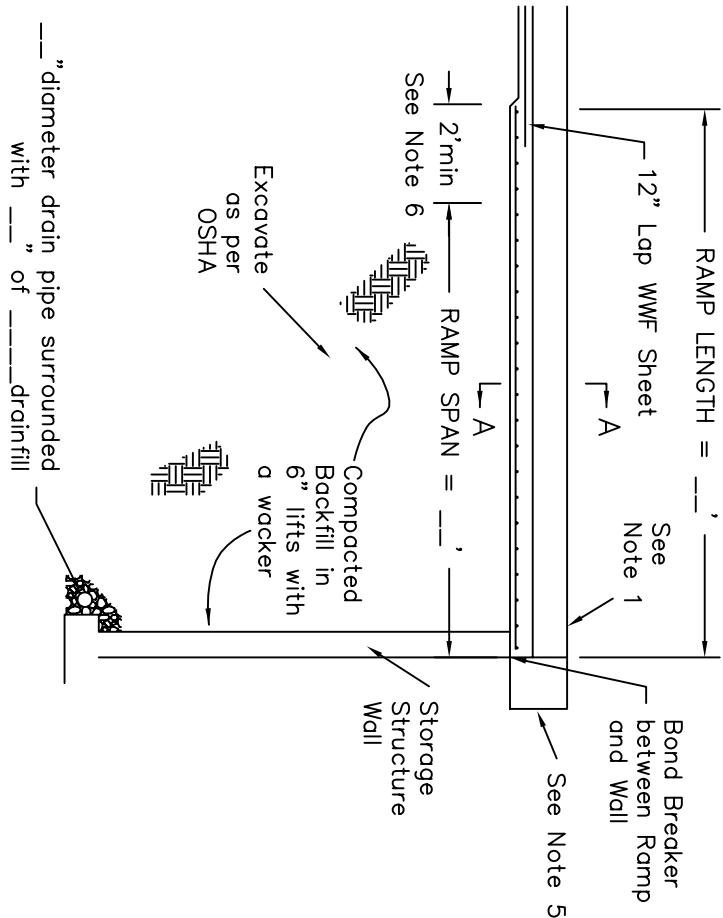
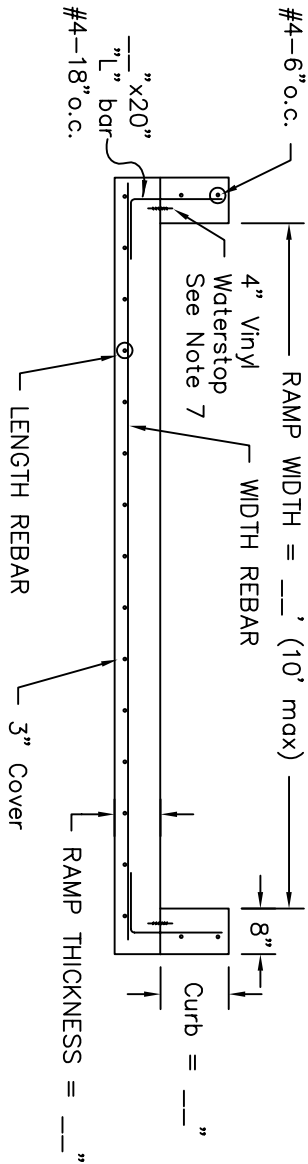


SIDE ELEVATION



SECTION A-A



ADDITIONAL NOTES

1. PROVIDE SAFETY GUARD ACROSS END OF PUSHOFF
2. PUSHOFF SLOPE OF 1/8" PER FOOT towards/away STRUCTURE
3. SEE SPEC. 313 FOR MATERIALS SPECIFICATIONS
4. SEE PLAN VIEW FOR LOCATION
5. EXTEND PUSHOFF BEYOND SUPPORT WALL ___" (18" MAX)
6. IF UNDISTURBED SOIL HAS HIGH CONSOLIDATION POTENTIAL, INSTALL FOOTING, AS PER THE ENGINEER
7. IF ONE CONCRETE PLACEMENT, DELETE WATERSTOP

ISOMETRIC VIEW

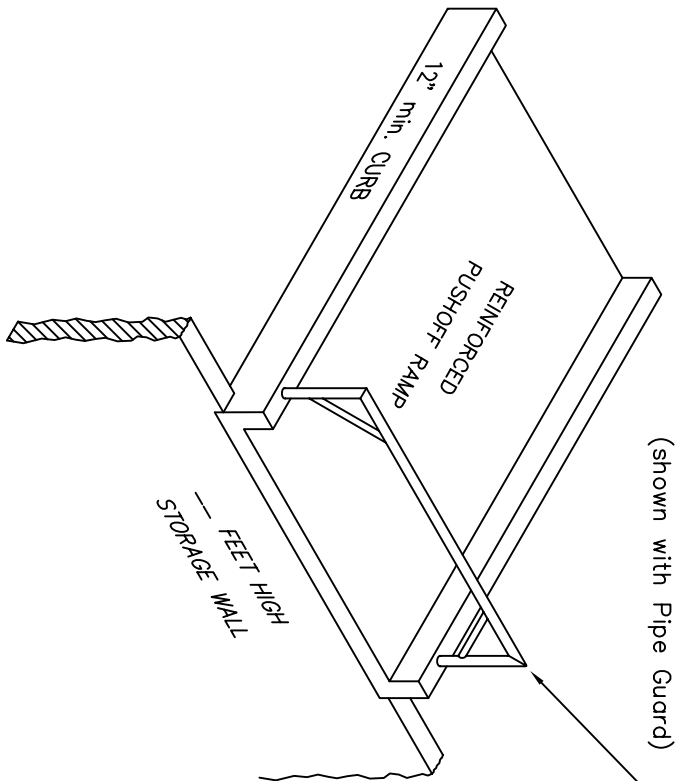


TABLE 1 PUSH-OFF DETAILS

TRACTOR/TANKER LOADS (2-5,000 lb wheel loads 4' o.c.)

RAMP SPAN (ft)	RAMP LENGTH Minimum (ft)	RAMP THICKNESS (in)	LENGTH REBAR	WIDTH REBAR
6	8	5	#5 @ 8.5" o.c.	#3 @ 12" o.c.
8	10	6	#5 @ 9.5" o.c.	#3 @ 10" o.c.
10	12	6	#5 @ 7" o.c.	#3 @ 10" o.c.
12	14	8	#5 @ 9" o.c.	#4 @ 12" o.c.
14	16	8	#5 @ 7" o.c.	#4 @ 12" o.c.
16	18	10	#5 @ 7" o.c.	#4 @ 12" o.c.

TABLE 2 PUSH-OFF DETAILS

LIGHT LOADS (150 psf)

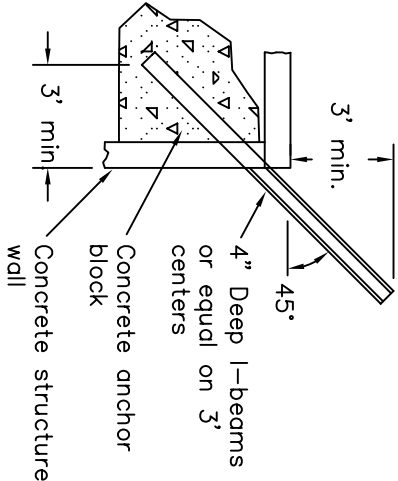
RAMP SPAN (ft)	RAMP LENGTH Minimum (ft)	RAMP THICKNESS (in)	LENGTH REBAR	WIDTH REBAR
6	8	5	#4 @ 5" o.c.	#3 @ 15" o.c.
8	10	5	#4 @ 5" o.c.	#3 @ 12" o.c.
10	12	5	#5 @ 5" o.c.	#3 @ 12" o.c.
12	14	6	#5 @ 7" o.c.	#3 @ 10" o.c.
14	16	6	#5 @ 5" o.c.	#3 @ 10" o.c.
16	18	6	#6 @ 5" o.c.	#3 @ 10" o.c.

PUSH-OFF SAFETY GUARD DETAILS

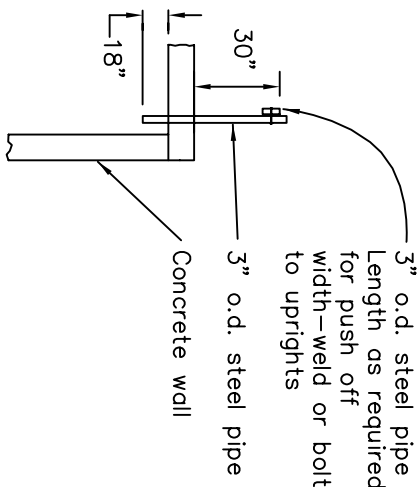
NOTE:
1. These safety guards are intended to deter accidental entry when scraping manure and not prevent it. Additional fencing is required to prevent livestock and human entry.

2. Other comparable safety guards may be used, if approved by the engineer.

I-BEAM GUARD



PIPE GUARD



COUNTY, PENNSYLVANIA

PUSHOFF RAMP

Designed	<u>MWPS-36</u>	Date	<u>5/23/02</u>
Drawn	<u>WAC</u>		
Checked			
Approved by			

File No.	<u>PA-068.dwg</u>
Drawing No.	<u>06/05/07 13:00</u>
	<u>PA-068</u>